

July 1, 2003

Mr. George Czerniak Chief - Air Enforcement and Compliance Branch USEPA Region 5 77 West Jackson Blvd. AE-17J Chicago, IL. 60604-3507



AIR ENFORCEMENT BRANCH U.S. EPA, REGION 5

SUBJECT:

Bi-Annual Report for Halogenated Solvent Cleaning Machines

Dear Mr. Czerniak:

Enclosed please find the Bi-Annual Report for Halogenated Solvent Cleaning Machines subject to the Halogenated Solvent Cleaner NESHAP (40 CFR 63 Subpart T) at the Morgan Electro Ceramics, Bedford, Ohio facility.

Thank you for your consideration in this matter. If you have any questions regarding this correspondence, please contact me at (440) 232-8600.

Sincerely,

William Hocevar Facility Manager

Morgan Electro Ceramics

Enclosure

cc:

Doug Brousard, Cleveland Air Pollution Control Division

T. Jones

HALOGENATED SOLVENT CLEANER NESHAP – BI-ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics	
Mailing Address	232 Forbes Road Bedford, Ohio 44146	
Equipment Location Address	Same as mailing address.	
Ohio EPA Facility ID.	13-18-03-1627	

SOLVENT MACHINE INFORMATION

Ohio EPA ID	L001			
Description of source	Solvent vapor degreaser using perchloroethylene			
Initial Startup date	October 17, 1998			
Type of Machine	Batch vapor			
Solvent/Air Interface Area	9.79 (square ft)			
Machine Controls	Freeboard Ratio 1.00			
	Freeboard refrigeration device			
	Super-heated vapor			
	Working-mode cover			
Method of Compliance	Alternative standard 40 CFR 63.464			
Overall Average Monthly	443.75 (lb. of solvent)			
Consumption				
3-Month Rolling Average	14.8 (lb/month/sq. ft. surface area)			
Emission Estimates*	From: 01/01/03; To: 03/31/03			
3-Month Rolling Average	75.9 (lb/month/sq. ft. surface area)			
Emission Estimates*	From : 04/01/03; To : 06/30/03			

^{*} Calculation method and results are attached.

Person preparing report:	Hocevar	William	J.	
	Last Name	First Name	Middle Initial	
Title:	Facility Engineering Manager			
Date prepared:	July 1, 2003			

HALOGENATED SOLVENT CLEANER NESHAP – BI-ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION				
Ohio EPA ID	P009 –B			
Description of source	Solvent vapor degreaser using perchloroethylene			
Make/Model	Baron Blakeslee / Model MLR-216			
Initial Startup date	September 1, 1998 (Replacement in kind of old machine)			
Type of Machine	Batch vapor			
Solvent/Air Interface Area	4.31 (square ft)			
Machine Controls	Freeboard Ratio 1.00			
	Freeboard refrigeration device			
	Working-mode cover			
Method of Compliance	Alternative standard 40 CFR 63.464			
Overall Average Monthly	54.1 (lb. of solvent)			
Consumption				
3-Month Rolling Average	5.2 (lb/month/sq. ft. surface area)			
Emission Estimates*	From: 01/01/03; To: 03/31/03			
3-Month Rolling Average	19.9 (lb/month/sq. ft. surface area)			
Emission Estimates*	From: 04/01/03; To: 06/30/03			

^{*} Calculation method and results are attached.

Person preparing report:	Hocevar	William	J		
	Last Name	First Name	Middle Initial		
Title:	Facility Engineering Manager				
Date prepared:	July 1, 2003				

HALOGENATED SOLVENT CLEANER NESHAP – BI-ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION				
Ohio EPA ID	P019			
Description of source	Solvent vapor degreaser using perchloroethylene			
Make/Model	Finishing Equipment 6342			
Initial Startup date	January 1, 1990			
Type of Machine	Batch vapor			
Solvent/Air Interface Area	4.38 (square ft)			
Machine Controls	Freeboard Ratio 1.00			
	Freeboard refrigeration device			
	Working-mode cover			
Method of Compliance	Alternative standard 40 CFR 63.464			
Overall Average Monthly	442.56 (lb. of solvent)			
Consumption	/200 10			
3-Month Rolling Average	41.2 (lb/month/sq. ft. surface area)			
Emission Estimates*	From : 01/01/03; To : 03/31/03			
3-Month Rolling Average	160.9 (lb/month/sq. ft. surface area)			
Emission Estimates*	From: 04/01/03; To: 06/30/03			

^{*} Calculation method and results are attached.

Person preparing report:	Hocevar	William	J.
	Last Name	First Name	Middle Initial
Title:	Facility Enginee	(1	
Date prepared:	July 1, 2003		

Facility	Name:	organ Electro Ceramics	EPA Fa	icility ID: 1318031627
Unit Na	me: Baro	on Blakeslee MLR-280LE		
Compar	ıy I.D.:	VPD-34	Ohio l	EPA I.D.: <i>L001</i>
			•	
Month:		January		Year: 2003
	formation		T	
	ngth (inside):	3.67	(feet)	
Tank W	idth (inside):	2.67	(feet)	
Tank Su	rface Area (s.a.):	9.79	(feet) ²	
Solvent	Usage Information			Formulas / Notes
1	Type Solvent Used	Perchloroethylene	:	1 of mulas / frotes
	S.G. of Solvent	1.62		[From MSDS]
2		13.51	(lb/gallon)	[From MSDS]
3	Solvent Density	IJ_*JI	[(ID/gallon]	[Prom MSDS]
4	Solvent Added	75.0	(gallon)	[From monthly log]
5	Waste Removed	64.0	(gallon)	[From monthly log]
6	% Solvent in waste	99.90%	(%)	[From analytical report]
7	Solvent Removed in was		(gallon)	[gal. Waste] * [% solvent]
8	Pure Solvent Removed	0.0	(gallon)	[From monthly log]
9	Total Solvent Removed	63.9	(gallon)	[7+8]
1 0 × 2		La constant de la con](0 /	
10	Total Solvent Emitted	11.1	(gallon)	[4+9]
11	Total Solvent Emitted	149.5	(lbs)	[10 * 3]
		And the second of the second o		2 -19
Monthl	y Emissions			
Avera	ge Solvent	n .	_	е <u>е</u> е
Emiss	sion Rate:	15.3	(lb/month/	[11 / (tank surface area)]
Avera	ge Solvent		ft ² s.a.)	
	able Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T
		7/	ft ² s.a.)	2
	Note: If ave. solvent em	ission rate is < 30.6 lb/mor		action is required.
		rate is > 30.6 lb/month/ft ² , l		-
Three N	Month Rolling Average		1	- 1
	0 0			2
3 - Mo	onth Average Solvent	*		
1	Emission Rate:	22.1](lb/month/	[Average of three previous
		,	ft^2 s.a.)	months solvent emission rates

Facility N	lame:	Morgan	Electro Ceramics	EPA Facility ID: 1318031627		
Unit Nam	ie: B	Baron Bla	keslee MLR-280LE			
Company	7 I.D.:		VPD-34	Ohio I	EPA I.D.: <i>L001</i>	
Month:	<i>p</i>		February		Year: 2003	
Unit Info	rmation					
	gth (inside):		3.67	(feet)		
	lth (inside):		2.67	(feet)		
	face Area (s.a.):	5-1	9.79	(feet) ²		
1 ank buri	acc Arca (s.a.).	i		[[(1000)		
Solvent U	Jsage Information				Formulas / Notes	
1	Type Solvent Used		Perchloroethylene		-	
2	S.G. of Solvent		1.62		[From MSDS]	
3	Solvent Density		13.51	(lb/gallon)	[From MSDS]	
4	Solvent Added		8.0	(gallon)	[From monthly log]	
5	Waste Removed		0.0	(gallon)	[From monthly log]	
6	% Solvent in waste	gr.	99.90%	(%)	[From analytical report]	
7	Solvent Removed in v	waste	0.0	(gallon)	[gal. Waste] * [% solvent]	
8	Pure Solvent Remove	ed	0.0	(gallon)	[From monthly log]	
9	Total Solvent Remove	ed	0.0	(gallon)	[7+8]	
					3-42	
10	Total Solvent Emitted	1	8.0	(gallon)	[4+9]	
11	Total Solvent Emitted	1	108.1	(lbs)	[10 * 3]	
	Emissions		The second of th			
12	e Solvent			7		
Emissi	on Rate:		11.0	(lb/month/	[11 / (tank surface area)]	
Averag	e Solvent			ft ² s.a.)		
Allowa	ble Rate:		30.6	(lb/month/	From 40 CFR 63, Subpart T	
			Data was ku who with a fill combined from the combined with a combined from the comb	ft ² s.a.)	in a	
	Note: If ave. solvent	emission	rate is < 30.6 lb/mor	2 1	action is required.	
					rterly exceedance report.	
Three M	onth Rolling Average		,			
A AMA CO IVA	on the stommer strongs	1			-	
3 - Mor	nth Average Solvent		50	Đ		
	mission Rate:		17.5	(lb/month/	Average of three previous	
	*			ft^2 s.a.)	months solvent emission rates	
1	· · · · · · · · · · · · · · · · · · ·			11 S.a.)	monus sorvent emission rates	

Facility Name: Unit Name: Company I.D.:	Morgan Electro Ceramics Baron Blakeslee MLR-280LE VPD-34		EPA I.D.: £001
Month:	March		Year: 2003
Unit Information Tank Length (inside): Tank Width (inside): Tank Surface Area (s.a.):	3.67 2.67 9.79	(feet) (feet) ²	
Solvent Usage Information	9	37	Formulas / Notes
1 Type Solvent Used	Perchloroethylene		
2 S.G. of Solvent	1.62	39	[From MSDS]
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]
 Solvent Added Waste Removed Solvent in waste Solvent Removed in 	13.0 0.0 99.90% waste 0.0	(gallon) (gallon) (%) (gallon)	[From monthly log] [From monthly log] [From analytical report] [gal. Waste] * [% solvent]
8 Pure Solvent Remov	ed 0.0	(gallon)	[From monthly log]
9 Total Solvent Remov	ved 0.0	(gallon)	[7+8]
10 Total Solvent Emitte11 Total Solvent Emitte	الميكوا والوالوالوالوالوالوالوالوالوالوالوالوالو	(gallon) (lbs)	[4+9]
Monthly Emissions			
Average Solvent Emission Rate:	17.9	(lb/month/	[11 / (tank surface area)]
Average Solvent Allowable Rate:	30.6		From 40 CFR 63, Subpart T
	t emission rate is < 30.6 lb/mon		
	ion rate is > 30.6 lb/month/ft ² , 1	Note in quar	rterly exceedance report.
Three Month Rolling Averag	e		
3 - Month Average Solvent Emission Rate:	14.8](lb/month/ ft ² s.a.)	[Average of three previous months solvent emission rates

Facility Unit Na		an Electro Ceramics Blakeslee MLR-280LE	EPA Fa	cility ID: 1318031627
Compar		VPD-34	Ohio I	EPA I.D.: L001
			_	
Month:		April		Year: 2003
Unit Inf	formation			
Tank Le	ngth (inside):	3.67	(feet)	
Tank W	idth (inside):	2.67	(feet)	
Tank Su	rface Area (s.a.):	9.79	(feet) ²	
Solvent	Usage Information			Formulas / Notes
1	Type Solvent Used	Perchloroethylene		
2	S.G. of Solvent	1.62		[From MSDS]
3	Solvent Density	13,51	(lb/gallon)	[From MSDS]
4	Solvent Added	24.0	(gallon)	[From monthly log]
5	Waste Removed	0.0	(gallon)	[From monthly log]
6	% Solvent in waste	99.90%	(%)	[From analytical report]
7	Solvent Removed in waste	0.0	(gallon)	[gal. Waste] * [% solvent]
8	Pure Solvent Removed	0.0	(gallon)	[From monthly log]
9	Total Solvent Removed	0.0	(gallon)	[7+8]
10	Total Solvent Emitted	24.0	(gallon)	[4+9]
11	Total Solvent Emitted	324.3	(lbs)	[10 * 3]
Monthl	y Emissions			
	ge Solvent	MANY		9
- In 12	sion Rate:	33.1	(lb/month/	[11 / (tank surface area)]
Avera	ge Solvent		ft ² s.a.)	
Allow	rable Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T
		0 H 0 5	ft ² s.a.)	
2.	Note: If ave. solvent emissi			Section 1 and 1
	If ave. solvent emission rate	is > 30.6 lb/month/ft ² ,	Note in quar	rterly exceedance report.
Three N	Month Rolling Average			
	2	3 SE	*** ** 10. ***	
1	onth Average Solvent	20.7	7.01.7. 4.7	[A
	Emission Rate:	20.7		[Average of three previous
1			ft^2 s.a.)	months solvent emission rates

Facility I			i Electro Ceramics akeslee MLR-280LE	-	eility ID: 1318031627
Compan		Duron Bu	VPD-34	4	EPA I.D.: <i>L001</i>
Month:			May		Year: 2003
Unit Info	ormation			-	
Tank Ler	ngth (inside):		3.67	(feet)	
Tank Wi	dth (inside):		2.67	(feet)	
Tank Sur	face Area (s.a.):		9.79	(feet) ²	
Solvent	Usage Information	AMARAMA			Formulas / Notes
1	Type Solvent Used		Perchloroethylene		0 8
2	S.G. of Solvent		1.62		[From MSDS]
3	Solvent Density		13.51	(lb/gallon)	[From MSDS]
4	Solvent Added		65.0	(gallon)	[From monthly log]
5	Waste Removed		0.0	(gallon)	[From monthly log]
6	% Solvent in waste		99.90%	(%)	[From analytical report]
7	Solvent Removed in	waste	0.0	(gallon)	[gal. Waste] * [% solvent]
8	Pure Solvent Remov		0.0	(gallon)	[From monthly log]
9	Total Solvent Remov		0.0	(gallon)	[7+8]
1 2				1(8,)	
10	Total Solvent Emitte	ed	65.0	(gallon)	[4+9]
11	Total Solvent Emitte		878.2	(lbs)	[10 * 3]
Monthly	Emissions				
	ge Solvent	1			
	ion Rate:	99	89.7	(lb/month/	[11 / (tank surface area)]
Averag	ge Solvent			ft ² s.a.)	
	able Rate:		30.6	(lb/month/	From 40 CFR 63, Subpart T
				ft ² s.a.)	
	Note: If ave. solven	it emission	rate is < 30.6 lb/mor	6 1	action is required.
	If ave. solvent emiss	sion rate is	> 30.6 lb/month/ft ² ,	Note in qua	rterly exceedance report.
Three N	Ionth Rolling Averag	e			
2 1/	anth Arrana a - C - I d				
	nth Average Solvent Emission Rate:		46.9	(lb/month/	[Average of three previous
1	mission Rate.		40.7	- 2 2 3	
4 1				ft^2 s.a.)	months solvent emission rates

Facility Name:	Facility Name: Morgan Electro Ceramics		EPA Facility ID: 1318031627		
Unit Name:	Baron Blakeslee MLR-280LE				
Company I.D.:		VPD-34	Ohio F	EPA I.D.: <i>L001</i>	
Month:		June		Year: 2003	
Unit Information					
Tank Length (inside):		3.67	(feet)		
Tank Width (inside):		2.67	(feet)		
Tank Surface Area (s.a.):		9.79	(feet) ²		
Solvent Usage Information			T	Formulas / Notes	
1 Type Solvent Used		Perchloroethylene		10	
2 S.G. of Solvent	Ī	1.62		[From MSDS]	
3 Solvent Density		13.51	(lb/gallon)	[From MSDS]	
4 Solvent Added		76.0	(gallon)	[From monthly log]	
5 Waste Removed	i i	0.0	(gallon)	[From monthly log]	
6 % Solvent in waste	Ë	99.90%	(%)	[From analytical report]	
7 Solvent Removed in	n waste	0.0	(gallon)	[gal. Waste] * [% solvent]	
8 Pure Solvent Remo	ved	0.0	(gallon)	[From monthly log]	
9 Total Solvent Remo	oved	0.0	(gallon)	[7+8]	
10 Total Solvent Emits	ted	76.0	(gallon)	[4+9]	
11 Total Solvent Emit		1026.8	(lbs)	[10 * 3]	
Monthly Emissions					
Average Solvent		9.7			
Emission Rate:		104.9	(lb/month/	[11 / (tank surface area)]	
Average Solvent			ft^2 s.a.)	0	
Allowable Rate:		30.6	(lb/month/	From 40 CFR 63, Subpart T	
II		39	ft ² s.a.)	-	
Note: If ave. solve				140 miles	
If ave. solvent emis	sion rate is >	> 30.6 lb/month/ft ² ,	Note in quar	terly exceedance report.	
Three Month Rolling Avera	ge	1	11		
		**			
3 - Month Average Solvent	r		7	5.1	
Emission Rate:	L	75.9		[Average of three previous	
			ft ² s.a.)	months solvent emission rates	

Facility Name: Unit Name: Company I.D.:	Morgan Electro Ceramics Baron Blakeslee MLR-216 VPD-6B		ecility ID: 1318031627 EPA I.D.: P009
Month:	January		Year: 2003
Unit Information Tank Length (inside): Tank Width (inside): Tank Surface Area (s.a.):	3.23 1.33 4.31	(feet) (feet) (feet) ²	
Solvent Usage Information	2		Formulas / Notes
1 Type Solvent Used	Perchloroethylene	2	
2 S.G. of Solvent	1.62		[From MSDS]
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]
4 Solvent Added	5.0	(gallon)	[From monthly log]
5 Waste Removed	0.0	(gallon)	[From monthly log]
6 % Solvent in waste	99.90%	(%)	[From analytical report]
7 Solvent Removed in	n waste θ , θ	(gallon)	[gal. Waste] * [% solvent]
8 Pure Solvent Remo	ved 0.0	(gallon)	[From monthly log]
9 Total Solvent Remo	oved 0.0	(gallon)	[7+8]
10 Total Solvent Emit	ted <i>5.0</i>	(gallon)	[4+9]
11 Total Solvent Emitt	ted 67.6	(lbs)	[10 * 3]
Monthly Emissions			£ 4
Average Solvent			
Emission Rate:	15.7	(lb/month	[11 / (tank surface area)]
Average Solvent		ft ² s.a.)	
Allowable Rate:	30.6	(lb/month	From 40 CFR 63, Subpart T
1	* ×	ft ² s.a.)	
Note: If ave. solve	ent emission rate is < 30.6 lb/mo	-	action is required.
If ave, solvent emis	ssion rate is > 30.6 lb/month/ft ²	. Note in gua	rterly exceedance report.
Three Month Rolling Avera		1	- A:
0			-
3 - Month Average Solvent			
Emission Rate:	14.9	(lb/month/	[Average of three previous
, 1		ft^2 s.a.)	months solvent emission rates

Facility Name:	and the same of th	n Electro Ceramics	EPA Fa	eility ID: 1318031627
Unit Name:	Baron 1	Blakeslee MLR-216	01. 1	EPA I.D.: P009
Company I.D.:		VPD-6B		EPA I.D.: <i>P009</i>
Month:		February		Year: 2003
Unit Information				
Tank Length (inside):		3.23	(feet)	
Tank Width (inside):		1.33	(feet)	
Tank Surface Area (s.a.):		4.31	(feet) ²	
Tank Sariaco Filoa (S.a.).			1(1000)	
Solvent Usage Informati	ion		-	Formulas / Notes
1 Type Solvent U	Jsed	Perchloroethylene		
2 S.G. of Solven	t	1.62		[From MSDS]
3 Solvent Densit	У	13.51	(lb/gallon)	[From MSDS]
-			_	
4 Solvent Added	eres a	$\theta.0$	(gallon)	[From monthly log]
5 Waste Remove	:d	0.0	(gallon)	[From monthly log]
6 % Solvent in w	aste	99.90%	(%)	[From analytical report]
7 Solvent Remov	red in waste	0.0	(gallon)	[gal. Waste] * [% solvent]
8 Pure Solvent R	emoved	0.0	(gallon)	[From monthly log]
9 Total Solvent I	Removed	0.0	(gallon)	[7+8]
		10 marks 1 mar	_	
10 Total Solvent I	Emitted	0.0	(gallon)	[4+9]
11 Total Solvent I	3mitted	0.0	(lbs)	[10 * 3]
	- Company of the Comp		1) 1	
Monthly Emissions		v		* * 1
Average Solvent			7	
Emission Rate:		0.0	(lb/month/	[11 / (tank surface area)]
Average Solvent		-	ft ² s.a.)	
Allowable Rate:		30.6	(lb/month/	From 40 CFR 63, Subpart T
	ψ = •	9	ft ² s.a.)	
Note: If ave. s	solvent emission	rate is < 30.6 lb/mor	nth/ft2, NO	action is required.
If ave, solvent	emission rate is	$s > 30.6 \text{ lb/month/ft}^2$	Note in quar	rterly exceedance report.
Three Month Rolling A		2)	
3			***************************************	0
3 - Month Average Solv	vent	4		
Emission Rate:		5.3	(lb/month/	[Average of three previous
		12	ft ² s.a.)	months solvent emission rates

Facility I		gan Electro Ceramics	EPA F2	ncility ID: 1318031627
Unit Nar	-	on Blakeslee MLR-216 VPD-6B	Ohio	EPA I.D.: P009
Compan	у 1.Д.:	VFD-0D	- Onto	EFA 1.D
Month:		March	0 0 0	Year: 2003
Unit Info	ormation			
Tank Ler	ngth (inside):	3.23	(feet)	
Tank Wi	dth (inside):	1.33	(feet)	
Tank Sur	face Area (s.a.):	4.31	(feet) ²	
Solvent	Usage Information			Formulas / Notes
1	Type Solvent Used	Perchloroethylene		
2	S.G. of Solvent	1.62		[From MSDS]
3	Solvent Density	13.51	(lb/gallon)	[From MSDS]
				-
4	Solvent Added	0.0	(gallon)	[From monthly log]
5	Waste Removed	0.0	(gallon)	[From monthly log]
6	% Solvent in waste	99.90%	(%)	[From analytical report]
7	Solvent Removed in waste	0.0	(gallon)	[gal. Waste] * [% solvent]
8	Pure Solvent Removed	0.0	(gallon)	[From monthly log]
9	Total Solvent Removed	0.0	(gallon)	[7+8]
		2	" 5	
10	Total Solvent Emitted	0.0	(gallon)	[4+9]
11	Total Solvent Emitted	0.0	(lbs)	[10 * 3]
			H ^K	i i
-	Emissions		W 100 - 100	S.
1 ~	ge Solvent		7	
Emiss	ion Rate:	0.0	(lb/month/	[11 / (tank surface area)]
Averag	ge Solvent	7	ft^2 s.a.)	
Allowa	able Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T
			ft ² s.a.)	74
	Note: If ave. solvent emis	sion rate is < 30.6 lb/mo	nth/ft2, NO	action is required.
	If ave. solvent emission rat	te is > 30.6 lb/month/ft ² .	Note in qua	rterly exceedance report.
Three M	Ionth Rolling Average		1	3
				2.
3 - Mo:	nth Average Solvent	¥ ₁₂		2
1	Emission Rate:	5.2	(lb/month/	[Average of three previous
100				months solvent emission rates

Facility Name:		Morgan Electro Ceramics		EPA Fa	EPA Facility ID: 1318031627	
Unit Name:		Baron Blakeslee MLR-216		Ś ::		
Compan	y I.D.:		VPD-6B	Ohio I	EPA I.D.: <i>P009</i>	
Month:			April		Year: 2003	
Unit Info	ormation					
Tank Ler	igth (inside):		3.23	(feet)		
Tank Wie	dth (inside):		1.33	(feet)		
Tank Sur	face Area (s.a.):		4.31	(feet) ²		
Solvent 1	Usage Information				Formulas / Notes	
1	Type Solvent Used		Perchloroethylen	ie:		
2	S.G. of Solvent		1.62		[From MSDS]	
3	Solvent Density		13.51	(lb/gallon)	[From MSDS]	
4	Solvent Added		10.0	(gallon)	[From monthly log]	
5	Waste Removed		0.0	(gallon)	[From monthly log]	
6	% Solvent in waste		99.90%	(%)	[From analytical report]	
7	Solvent Removed in	waste	0.0	(gallon)	[gal. Waste] * [% solvent]	
8	Pure Solvent Remove	ed	0.0	(gallon)	[From monthly log]	
9	Total Solvent Remov	ed	0.0	(gallon)	[7+8]	
					2	
10	Total Solvent Emitted	d ,	10.0	(gallon)	[4+9]	
11	Total Solvent Emitte	d	135.1	(lbs)	[10 * 3]	
Monthly	Emissions		A 8			
	e Solvent					
	ion Rate:		31.4	(lb/month/	[11 / (tank surface area)]	
Averag	ge Solvent			ft ² s.a.)	-	
Allowa	ıble Rate:		30,6	(lb/month/	From 40 CFR 63, Subpart T	
	8		9	ft ² s.a.)		
	Note: If ave. solvent	emission	n rate is < 30.6 lb/m	ionth/ft2, NO a	action is required.	
	If ave. solvent emissi	on rate is	s > 30.6 lb/month/ft	² , Note in quar	terly exceedance report.	
Three M	onth Rolling Average	9				
200 200 200						
	nth Average Solvent		a processor of the first of the	S and a second		
F	lmission Rate:		10.5	(lb/month/	[Average of three previous	
10		*	. 10	ft ² s.a.)	months solvent emission rates]	

Facility Name: Mo			i Electro Ceramics	EPA Facility ID: 1318031627		
Unit Name: Baron E		Blakeslee MLR-216	=			
Compan	y I.D.:		VPD-6B	Ohio l	EPA I.D.: <i>P009</i>	
Month:			Мау		Year: 2003	
Unit Inf	ormation					
Tank Le	ngth (inside):		3.23	(feet)		
Tank Wi	dth (inside):		1.33	(feet)		
Tank Su	rface Area (s.a.):		4.31	(feet) ²		
Solvent	Usage Information	· · · · · · · · · · · · · · · · · · ·		I	Formulas / Notes	
1	Type Solvent Used		Perchloroethylene		A OR ARRESTED / 110 cos	
2	S.G. of Solvent		1.62		[From MSDS]	
3	Solvent Density		13.51	(lb/gallon)	[From MSDS]	
			<u> </u>	1, 0 1		
4	Solvent Added		33.5	(gallon)	[From monthly log]	
5	Waste Removed		28.5	(gallon)	[From monthly log]	
6	% Solvent in waste		99.90%	(%)	[From analytical report]	
7	Solvent Removed in wa	aste	28.5	(gallon)	[gal. Waste] * [% solvent]	
8	Pure Solvent Removed		0.0	(gallon)	[From monthly log]	
9	Total Solvent Removed	1	28.5	(gallon)	[7+8]	
OF 12						
10	Total Solvent Emitted		5.0	(gallon)	[4+9]	
11	Total Solvent Emitted		67.9	(lbs)	[10 * 3]	
Monthly	Emissions			£.		
	ge Solvent			(11)		
1	ion Rate:		15.8	(lb/month/	[11 / (tank surface area)]	
Avera	ge Solvent			ft ² s.a.)		
	able Rate:		30.6	(lb/month/	From 40 CFR 63, Subpart T	
			14	ft ² s.a.)		
	Note: If ave. solvent en	mission	rate is < 30.6 lb/mor	nth/ft2, NO	action is required.	
	If ave. solvent emission	rate is	> 30.6 lb/month/ft ² ,	Note in quar	terly exceedance report.	
Three N	Ionth Rolling Average		n l			
					Λ	
3 - Mo	nth Average Solvent		D 20		5 a a	
	Emission Rate:		15.7](lb/month/	[Average of three previous	
11			1	ft² s.a.)	months solvent emission rates	

Facility Name: Unit Name:		Electro Ceramics akeslee MLR-216	EPA Fa	cility ID: 1318031627
Company I.D.:	and the same of th	VPD-6B	Ohio I	EPA I.D.: <i>P009</i>
Month:		June		Year: 2003
Unit Information		15	7	
Tank Length (inside):	-	3.23	(feet)	
Tank Width (inside):		1.33	(feet)	
Tank Surface Area (s.a.):		4.31	(feet) ²	
Solvent Usage Information	n .			Formulas / Notes
1 Type Solvent Use	ed 🗓	Perchloroethylene		
2 S.G. of Solvent		1.62		[From MSDS]
3 Solvent Density		13.51	(lb/gallon)	[From MSDS]
4 Solvent Added	E	4.0	(gallon)	[From monthly log]
5 Waste Removed		0.0	(gallon)	[From monthly log]
6 % Solvent in was	ate E	99.90%	(%)	[From analytical report]
7 Solvent Removed	ļ-	0.0	(gallon)	[gal. Waste] * [% solvent]
		0.0	(gallon)	[From monthly log]
	. l-	0.0	(gallon)	[7+8]
9 Total Solvent Re	moved	0.0	ganou)	[710]
10 Total Solvent En	nitted	4.0	(gallon)	[4+9]
11 Total Solvent En	nitted	54.0	(lbs)	[10 * 3]
		and the second s		71
Monthly Emissions				
Average Solvent	F		a l	
Emission Rate:		12.5	(lb/month/	[11 / (tank surface area)]
Average Solvent			ft^2 s.a.)	
Allowable Rate:		30.6	[lb/month/	From 40 CFR 63, Subpart T
B 1		40 - 20	ft ² s.a.)	
Note: If ave. sol	vent emission r	rate is < 30.6 lb/mor	nth/ft2, NO a	action is required.
If ave. solvent er	nission rate is >	> 30.6 lb/month/ft ² ,	Note in quar	terly exceedance report.
Three Month Rolling Ave	rage	11		
3 - Month Average Solve	nt		Tare 1	
Emission Rate:	27	19.9	_(lb/month/	[Average of three previous
			ft ² s.a.)	months solvent emission rates

hand the state of	n Electro Ceramics ng Equipment 6342 VPD-24		cility ID: 1318031627 EPA I.D.: P019
Month:	January		Year: 2003
Unit Information Tank Length (inside): Tank Width (inside): Tank Surface Area (s.a.):	2.92 1.50 4:38	(feet) (feet) (feet) ²	
Solvent Usage Information		T	Formulas / Notes
1 Type Solvent Used	Perchloroethylene		
2 S.G. of Solvent	1.62		[From MSDS]
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]
 4 Solvent Added 5 Waste Removed 6 % Solvent in waste 7 Solvent Removed in waste 	34.0 34.0 99.90% 34.0	(gallon) (gallon) (%) (gallon)	[From monthly log] [From monthly log] [From analytical report] [gal. Waste] * [% solvent]
8 Pure Solvent Removed	0.0	(gallon)	[From monthly log]
9 Total Solvent Removed	34.0	(gallon)	[7+8]
10 Total Solvent Emitted11 Total Solvent Emitted	0;0 0;5	(gallon) (lbs)	[4+9]
Monthly Emissions		11	2
Average Solvent Emission Rate:	0.1	(lb/month/ ft ² s.a.)	[11 / (tank surface area)]
Average Solvent Allowable Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T
Anowable Rate.	3.0.0	ft ² s.a.)	Tiom to Crit 05, Bubpart 1
Note: If ave. solvent emission		nth/ft2, NO	
If ave. solvent emission rate i	s > 30.6 lb/month/ft ² ,	Note in quar	terly exceedance report.
Three Month Rolling Average	N 9		
3 - Month Average Solvent Emission Rate:	0.1](lb/month/ ft² s.a.)	[Average of three previous months solvent emission rates

	organ Electro Ceramics Lishing Equipment 6342 VPD-24	EPA Facility ID: 1318031627 Ohio EPA I.D.: P019		
Month:	February		Year: 2003	
Unit Information				
Tank Length (inside):		(feet)		
Tank Width (inside):		(feet)		
Tank Surface Area (s.a.):	4.38	(feet) ²		
Solvent Usage Information			Formulas / Notes	
1 Type Solvent Used	Perchloroethylene			
2 S.G. of Solvent	1.62	.	[From MSDS]	
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]	
4 Solvent Added	0.0	(gallon)	[From monthly log]	
5 Waste Removed	0.0	(gallon)	[From monthly log]	
6 % Solvent in waste	99.90%	(%)	[From analytical report]	
7 Solvent Removed in wast	e <i>0.0</i>	(gallon)	[gal. Waste] * [% solvent]	
8 Pure Solvent Removed	0.0	(gallon)	[From monthly log]	
9 Total Solvent Removed	0.0	(gallon)	[7+8]	
10 Total Solvent Emitted	0.0	(gallon)	[4+9]	
11 Total Solvent Emitted	0.0	(lbs)	[10 * 3]	
Monthly Emissions	***************************************			
Average Solvent			JAMES CONTRACTOR OF THE PROPERTY OF THE PROPER	
Emission Rate:	0.0	(lb/month/	[11 / (tank surface area)]	
Average Solvent		ft ² s.a.)		
Allowable Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T	
		ft ² s.a.)	·	
Note: If ave. solvent emi	ission rate is < 30.6 lb/mon	th/ft2, NO	action is required.	
If ave. solvent emission r	ate is > 30.6 lb/month/ft ² , 1	Note in qua	rterly exceedance report.	
Three Month Rolling Average				
3 - Month Average Solvent		· •		
Emission Rate:	0.1	(lb/month/	[Average of three previous	
		ft ² s.a.)	months solvent emission rates	

Facility Name: Unit Name: Company I.D.:	Morgan Electro Ceramics Finishing Equipment 6342 VPD-24	EPA Facility ID: 1318031627 Ohio EPA I.D.: P019		
Month:	March		Year: 2003	
Unit Information Tank Length (inside): Tank Width (inside): Tank Surface Area (s.a.):	2.92 1.50 4.38	(feet) (feet) (feet) ²		
Solvent Usage Information			Formulas / Notes	
1 Type Solvent Used	Perchloroethylene			
2 S.G. of Solvent	1.62		[From MSDS]	
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]	
4 Solvent Added 5 Waste Removed 6 % Solvent in waste 7 Solvent Removed it 8 Pure Solvent Removed 9 Total Solvent Rem 10 Total Solvent Emit 11 Total Solvent Emit 11 Total Solvent Emit	n waste	(gallon) (gallon) (gallon) (gallon) (gallon) (gallon) (gallon)	[From monthly log] [From monthly log] [From analytical report] [gal. Waste] * [% solvent] [From monthly log] [7+8] [4+9] [10 * 3]	
Average Solvent				
Emission Rate:	123.4	(lb/month/ ft ² s.a.)	[11 / (tank surface area)]	
Average Solvent Allowable Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T	
Note: If ave. solvent emission rate is < 30.6 lb/month/ft2, NO action is required. If ave. solvent emission rate is > 30.6 lb/month/ft², Note in quarterly exceedance report.				
Three Month Rolling Avera		1	J D D D D D D D D D D D D D D D D D D D	
3 - Month Average Solvent Emission Rate:](lb/month/ ft² s.a.)	[Average of three previous months solvent emission rates	

.

	Morgan Electro Ceramics	EPA Fa	cility ID: 1318031627					
	Finishing Equipment 6342 VPD-24	Ohio EPA I.D.: P019						
Company I.D.:	Y.F.D-44	Onio	EFA I.D.:					
Month:	April		Year: 2003					
Unit Information								
Tank Length (inside):	2.92	(feet)						
Tank Width (inside):	1.50	(feet)						
Tank Surface Area (s.a.):	4.38	(feet) ²						
Solvent Usage Information			Formulas / Notes					
1 Type Solvent Used	Perchloroethylene							
2 S.G. of Solvent	1.62		[From MSDS]					
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]					
5		a a						
4 Solvent Added	51.0	(gallon)	[From monthly log]					
5 Waste Removed	0.0	(gallon)	[From monthly log]					
6 % Solvent in waste	99.90%	(%)	[From analytical report]					
7 Solvent Removed in w	vaste 0.0	(gallon)	[gal. Waste] * [% solvent]					
8 Pure Solvent Removed	d <i>0.0</i>	(gallon)	[From monthly log]					
9 Total Solvent Remove	ed 0.0	(gallon)	[7+8]					
- ,		# %						
10 Total Solvent Emitted	51.0	(gallon)	[4+9]					
11 Total Solvent Emitted	689.1	(lbs)	[10 * 3]					
Monthly Emissions								
Average Solvent			1					
Emission Rate:	157.3	(lb/month/	[11 / (tank surface area)]					
Average Solvent		ft ² s.a.)	* ·					
Allowable Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T					
	10 202	ft ² s.a.)						
Note: If ave. solvent	Note: If ave. solvent emission rate is < 30.6 lb/month/ft2, NO action is required.							
If ave. solvent emission rate is > 30.6 lb/month/ft², Note in quarterly exceedance report.								
Three Month Rolling Average	in tace is a solution and it is	i i o i i i qua	and the second s					
A MA OF THE PROPERTY OF THE PARTY OF THE PAR	Proposition		19					
3 - Month Average Solvent								
Emission Rate:	93.6	(lb/month/	Average of three previous					
	d sel	ft ² s.a.)	months solvent emission rates					

Facility Name: Morgan		an Electro Ceramics	EPA Fa	cility ID: 1318031627			
		ing Equipment 6342					
		VPD-24	Ohio EPA I.D.: P019				
Month:		May		Year: 2003			
Unit Info	ormation						
Tank Len	gth (inside):	2.92	(feet)				
Tank Width (inside):		1.50	(feet)				
Tank Surface Area (s.a.):		4.38	(feet) ²				
Solvent U	Jsage Information		1	Formulas / Notes			
1	Type Solvent Used	Perchloroethylene					
2	S.G. of Solvent	1.62		[From MSDS]			
3	Solvent Density	13.51	(lb/gallon)	[From MSDS]			
4	Solvent Added	60.5	(gallon)	[From monthly log]			
5	Waste Removed	0.0	(gallon)	[From monthly log]			
6	% Solvent in waste	99.90%	(%)	[From analytical report]			
7	Solvent Removed in waste	0.0	(gallon)	[gal. Waste] * [% solvent]			
8	Pure Solvent Removed	0.0	(gallon)	[From monthly log]			
9	Total Solvent Removed	0.0	(gallon)	[7+8]			
			1				
10	Total Solvent Emitted	60.5	(gallon)	[4+9]			
11	Total Solvent Emitted	817.4	(lbs)	[10 * 3]			
N/ 41-1-	Endadore						
	Emissions			(444)			
	e Solvent on Rate:	186.6	(lb/month/	[11 / (tank surface area)]			
		100.0	45	[11 / (tank surface area)]			
	e Solvent	paramagayaya	ft ² s.a.)				
Allowa	ble Rate:	30.6	(lb/month/	From 40 CFR 63, Subpart T			
ft ² s.a.)							
Note: If ave. solvent emission rate is < 30.6 lb/month/ft2, NO action is required.							
	If ave. solvent emission rate	rterly exceedance report.					
Three M	onth Rolling Average						
11 12		20					
	nth Average Solvent		1 222 1 2 2 2				
				[Average of three previous			
	y	₩ II	ft ² s.a.)	months solvent emission rates			

Facility Unit Na	me:	Finishing Equ	ishing Equipment 6342		acility ID: 1318031627	
Compar	ıy I.D.:	VPD	-24	Ohio	EPA I.D.: <i>P019</i>	
Month:		Jun	ie		Year: 2003	
Unit Inf	ormation			_		
	ngth (inside):		2.92	(feet)		
Tank Width (inside):			1.50	(feet)		
Tank Surface Area (s.a.):			4.38	(feet) ²		
Solvent	Usage Information				Formulas / Notes	
1	Type Solvent Used	Perci	hloroethylene			
2	S.G. of Solvent		1.62		[From MSDS]	
3	Solvent Density		13.51	(lb/gallon)	[From MSDS]	
4	Solvent Added		45.0	(gallon)	[From monthly log]	
5	Waste Removed		0.0	(gallon)	[From monthly log]	
6	% Solvent in waste		99.90%	(%)	[From analytical report]	
7	Solvent Removed in w	vaste sees	0.0	(gallon)	[gal. Waste] * [% solvent]	
8	Pure Solvent Removed	i seeses	0.0	(gallon)	[From monthly log]	
9	Total Solvent Remove	ed Significant	0.0	(gallon)	[7+8]	
					-	
10	Total Solvent Emitted		45.0	(gallon)	[4+9]	
11	Total Solvent Emitted		608.0	(lbs)	[10 * 3]	
Monthly	/ Emissions		·····			
	ge Solvent		· · · · · · · · · · · · · · · · · · ·			
1	ion Rate:		138.8	(lb/month/	[11 / (tank surface area)]	
	ge Solvent	Restauration of the second sec		ft ² s.a.)		
1	able Rate:		30.6	- ´ I	From 40 CFR 63, Subpart T	
		<u> </u>		ft ² s.a.)		
	Note: If ave. solvent e	emission rate is	< 30.6 lb/mon		action is required.	
					rterly exceedance report.	
Three M	Ionth Rolling Average)	1		
3 - Mo	nth Average Solvent			_		
I	Emission Rate:		160.9	(lb/month/	[Average of three previous	
				ft ² s.a.)	months solvent emission rates	